

**Duke Energy Coastal Wind Demonstration Project / Public Scoping Meeting Comments
Manteo, North Carolina / March 18, 2010**

Breakout Session Room A

USACE Facilitators: Ms. Tracey Wheeler, Mr. Kyle Barnes, Ms. Christine Brayman

- Are any barrier islands used for wind farms in Europe or Asia? Placement of transmission lines on those islands?
 - What will impacts be on migratory birds and their routes, energy expense associated with avoidance, and collision?
 - Efficiency difference between land based and offshore wind farms?
 - Will construction and maintenance of wind farms come from local labor or out of state?
 - Will the project produce Carbon Credits?
 - What are the visual and noise impacts?
 - What are the impacts to aquatic life and humans?
 - Electromagnetic emission from transmission lines?
 - Are there any artificial reef benefits?
 - What is the decommissioning process associated with age or mechanical failure?
 - Is there Federal funding? If so where is it coming from?
 - Procedure for monitoring leaking oil or fluids?
 - What is the method for monitoring bird mortality after construction and during operation?
 - Is there a Bond requirement for maintenance?
 - What are the user conflicts? (e.g., security zones, navigation, recreation) Synergistic uses?
 - Impacts to military training?
 - Total project? What is the plan for future expansion?
 - Radar impacts?
 - USACE staffing impacts?
 - Display photographs and their accuracy?
 - Will the windmills be painted and if so, what color(s)?
 - Modeling for potential impacts on structure due to normal and catastrophic events?
Model for wave impacts?
 - Is location going to adversely impact aquatic life, substrate, or habitat?
 - Water clarity during construction and operation?
 - Tourism impacts?
 - Impacts to property values?
 - Location and substrate suitability to support structure and shifting sand movement?
 - Aviation impacts?
 - Impacts to electric rates?
 - Clean up from structural failure?
 - Submerged versus aerial lines?
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Breakout Session Room B

USACE Facilitators: Mr. Scott McLendon, Mr. Josh Pelletier, Ms. Emily Jernigan

- Pilot study to look at ocean resources and associated environmental impact?
- Does a demonstration in the sound replicate an offshore project?
- Ground water impacts associated with cable installation? (Is this going to impact my water well?)
- Impacts to recreational activities (hunting, fishing, boating ect.) in areas of the turbines and associated cables as well as offshore sites?
- Impacts to marine protected areas offshore?
- Lifetime of pilot study, and will they (turbines) be removed after study?
- Who is responsible for the structures after pilot study is completed?
- Can turbines be located in an area out of sight of land?
- Duke energy relationship with Outer Banks Ocean Energy Corp?
- Impact to military operations?
- Noise, medical, lighting – human impacts?
- Different types of foundations for structures?
- Direct impacts to adjacent waters associated with turbines?
- Native American tribal considerations?
- “Restricted” areas around structures (commercial and recreational fishing impacts)?
- Intention to close or prohibit public access around facility’s “3 square miles”?
- Impacts to property values and tourism?
- Potential employment opportunities?
- Cost per kilowatt hour to local cooperative?
- Revenue derived from the facility to the county (money, taxes, etc.)?
- Where will structures be manufactured, foreign or domestic?
- Construction related impacts to Pamlico Sound (dredging, etc.)?
- Location of the construction staging?
- Secondary economic impacts (State Ports-Morehead)?
- EMI – Electromagnetic Interface associated with project (Telecommunications, cell phones, radios etc.)?
- Impacts to fish, waterfowl and migratory birds?
- Water quality impacts?
- Exclusions (federal or state) from environmental regulations – are there exemptions from state permitting?
- Construction vs. operational related impacts?
- Relationship of pilot project vs. possible full scale projects in the future?
- Additional studies for possible full scale projects?

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Breakout Session Room B (continued)

- Possibility of restricting future turbines in the Pamlico Sound?
 - Can Corps limit project to 3 turbines?
 - Alternatives to location of structures?
 - Experience of similar projects overseas?
 - How transmission lines will be constructed and their orientation from turbines to shore (elevated vs. buried)?
 - Direct or Indirect impacts to consumers of Hatteras Island?
 - Maintenance of structures after construction?
 - General safety considerations?
 - Full Range of impacts associated with connection of the turbines to “substation(s)” in the water and/or on land?
 - Federal Funding?
 - Will an offshore pilot project have more significance than a pilot project in the sound for the future projects?
 - Ocean projects will have different impacts (environmental, etc.) than projects located in the sound as well as construction techniques, etc.?
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Written Comments

- Effect on Endangered Species (birds, sea turtles, marine mammals)?
- Possible artificial reef?
- Funding possibility?
- Decommissioning?
- Who maintains/
- User conflicts?
- Impacts to natural wetlands and marine life?
- Economic impacts to locals – cost of power? Who benefits from power? Where will jobs be provided and to whom?
- Increased cost of power?
- Reduce fishable areas?
- Potential to harm natural beauty and wildlife?
- Possible impact the project location will have on future planning for barrier island migrations?
- Would project location affect ferry system or bridge location?
- Effect on oysters (water clarity changes)?

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Written Comments (continued)

- Potential increase or decrease in tourism?
- Suitability of the location to support long term structure?
- Property values?
- Potential impacts of an inlet forming?
- Connection to existing electric grid?
- Impact on birds (ospreys especially)?
- What happens when the units break due to salt? Become too expensive to operate?
- What will the impact of a flock of cormorants have on a wind mill?